

WHAT IS CLAIMED IS:

1. A slot-in type reproducing/recording apparatus comprising:
an apparatus body having a slot for inserting and ejecting a disk; and
a hold assembly provided inside the apparatus body for accommodating the disk,
5 the hold assembly including a selector plate provided on a base plate, an eject arm for pressing the disk and ejecting the disk toward the slot, a main arm turnably attached to the base plate for pressing the disk, and a stop mechanism for stopping eject operation when the disk is ejected from the slot by the main arm and the eject arm, the selector plate being
10 able to advance and retract in a direction orthogonal to a disk-eject direction of the eject arm within a plane parallel to the base plate in accordance with open/close operation of the main arm, and the stop mechanism having an engagement pin formed on the eject arm and biased toward the selector plate and an engagement recess formed on the selector plate for holding the engagement pin so that the disk is held by the main arm and the eject arm.
2. The slot-in type reproducing/recording apparatus according to claim 1, wherein
15 the main arm is provided in pairs.
3. The slot-in type reproducing/recording apparatus according to claim 1, wherein the engagement recess has a flat section that faces a tip end of the engagement pin and an inclined section that is connected to the flat section and to a plane facing the eject arm of the selector plate, the inclined section being inclined along a direction orthogonal to a
20 movement direction of the eject arm.
4. The slot-in type reproducing/recording apparatus according to claim 1, further comprising an arm lock mechanism that includes the engagement pin and an engagement hole formed on the selector plate and locks the main arm and the eject arm when the arms hold the disk.
- 25 5. The slot-in type reproducing/recording apparatus according to claim 4, further comprising an arm unlock mechanism that releases the lock of the arm lock mechanism.
6. The slot-in type reproducing/recording apparatus according to claim 1, further comprising a recording/reproducing mechanism for recording on and/or reproducing from the disk and a-loading mechanism for advancing and retracting the base plate between a

position where the disk faces the recording/reproducing mechanism and a position near the slot.

7. The slot-in type reproducing/recording apparatus according to claim 6, wherein the base plate has a clamper for holding the disk and a clamper hold mechanism for moving the clamper toward the disk when the base plate advances to the recording/reproducing mechanism and for moving the clamper away from the disk when the base plate retracts to the slot.

8. The slot-in type reproducing/recording apparatus according to claim 6, wherein the apparatus body has a shutter for covering the slot when the recording/reproduction mechanism is in operation and for opening the slot when the recording/reproducing mechanism is not in operation, the shutter being coupled through a coupling mechanism with a switch lever that stops driving the loading mechanism and starts driving the recording/reproducing mechanism.

9. The slot-in type reproducing/recording apparatus according to claim 1, further comprising a dumper mechanism for softly pushing out the disk to the slot by the eject arm.

10. The slot-in type reproducing/recording apparatus according to claim 6, wherein the loading mechanism includes a motor, a gear mechanism coupled with the motor, and a rack coupled with the gear mechanism and provided along an advancement and retraction direction of the base plate, a groove is formed on at least one of the rack and the base plate for allowing a relative movement of the rack and the base plate along the advancement and retraction direction, and a start cam mechanism is formed between the base plate and the gear mechanism for starting rotation of the motor when the base plate advances to a predetermined position.

11. The slot-in type reproducing/recording apparatus according to claim 1, further comprising a manual eject mechanism for manually ejecting the hold assembly, the manual eject mechanism having an eject member that ejects the disk by a plurality of pushing operations.

12. The slot-in type reproducing/recording apparatus according to claim 11, further

comprising a disk lock mechanism for locking the disk when the eject member is manually pushed.

13. The slot-in type reproducing/recording apparatus according to claim 11, wherein the manual eject mechanism includes a one-way clutch that transfers the drive of the eject member only in a direction in which the eject member is manually pushed.

14. The slot-in type reproducing/recording apparatus according to claim 6, wherein the recording/reproducing mechanism is attached to the apparatus body in a manner that an end thereof is turnably supported while the other end is swingable toward and away from the disk accommodated in the hold assembly.